

Re-use of Solid-phase cDNA library in multiple PCR experiments, detecting different transcripts

**Cultured Carcinoma Cells** 

Lane	No. of cells	Amplicon	Round of PCR
1	10000	ESX	first (45 cycles)
2	10000	Mucin1	second (45 cycles)
3	10000	CK19	third (30 cycles)
4	· 10	CK19	first (nested)
5	10	ESX	second (nested)

FIG. 2

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### Nucleic acids

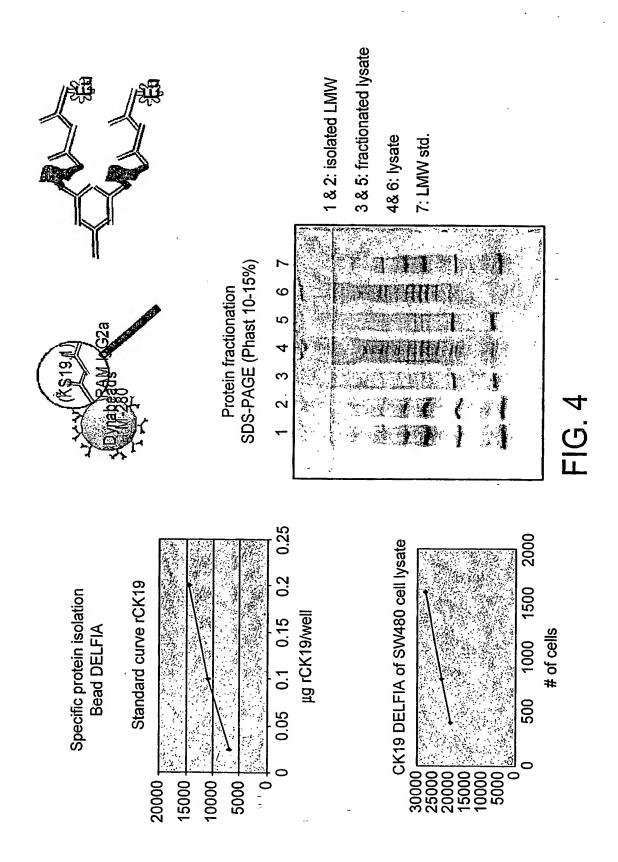
#### PCR and RT-PCR

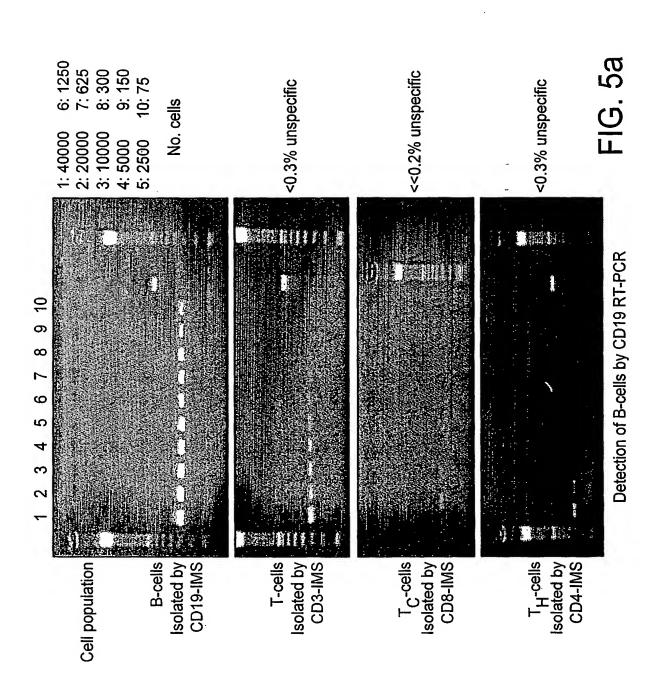
1 2 3 4 5 6 7

- 1. 100bp DNA ladder μg
- 2. cDNA CK19(m-RNA isolation)a
- 3. g DNA CK19(g-DNA isolation)a
- 4. CDNA CK19(m-RNA isolation)b
- 5. g DNA CK19(g-DNA isolation)b
- 6. Positive control
- 7. Negative control

FIG. 3





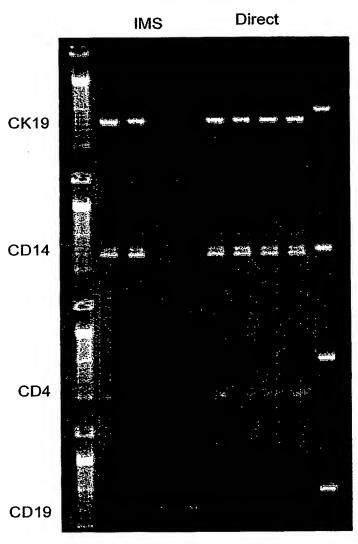


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6: 1250 7: 625 8: 300 9: 150 10: 75 <0.2% unspecific No. cells 1: 40000 2: 20000 3: 10000 4: 5000 5: 2500 Detection of "unspecific" cells in isolated monocyte (CD14) cell population တ ဖ 2 T<sub>H</sub> detection by CD4 RT-PCR Monocyte detection by CD14 RT-PCR by CD19 RT-PCR **B-cell detection** 

FIG. 5b

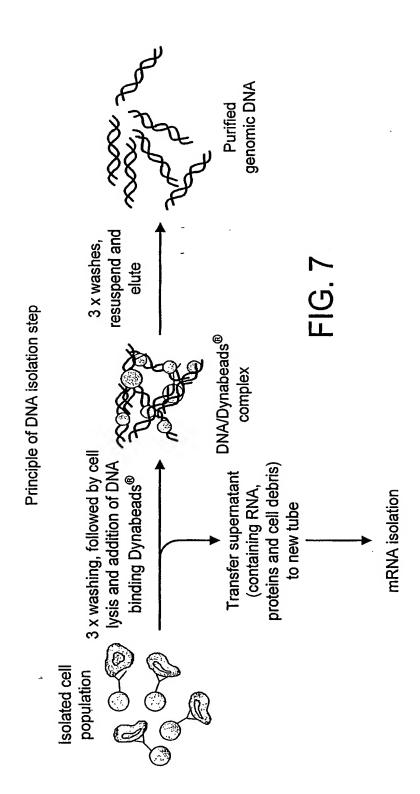
### Functionality of isolated mRNA

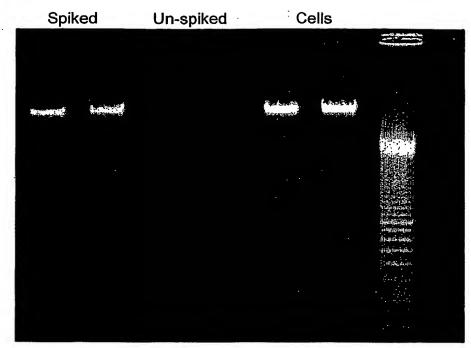


Template in RT-PCR: mRNA representing 10000 carcinoma cells

FIG. 6

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Integrity of isolated DNA:
No degradation

FIG. 8

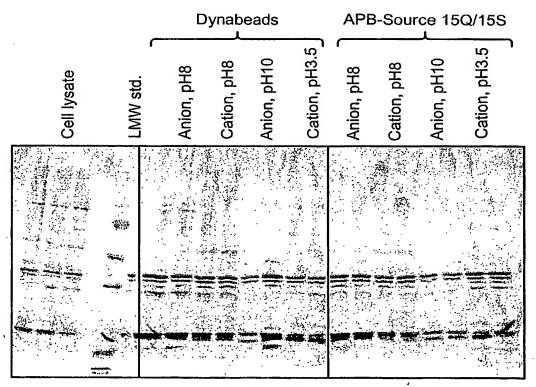


FIG. 9a

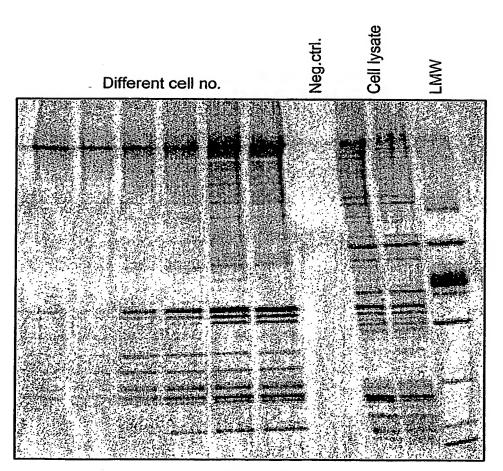
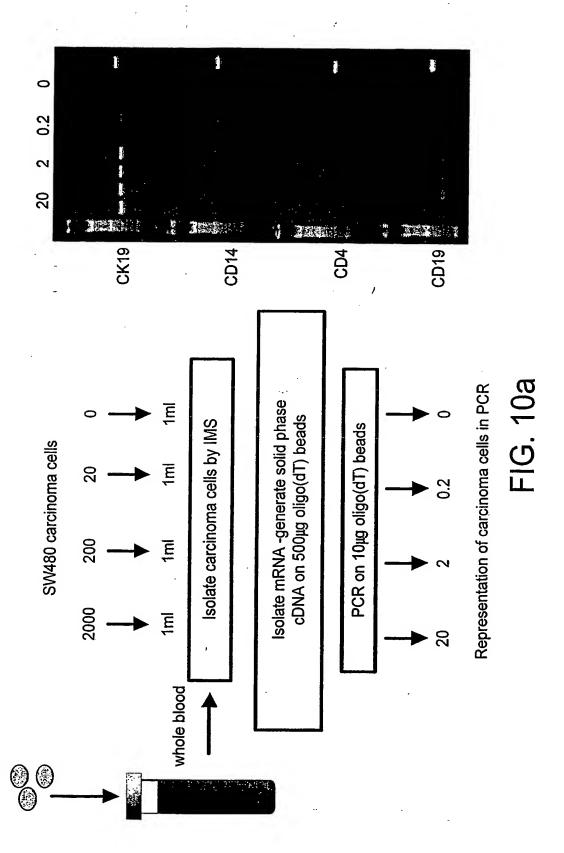
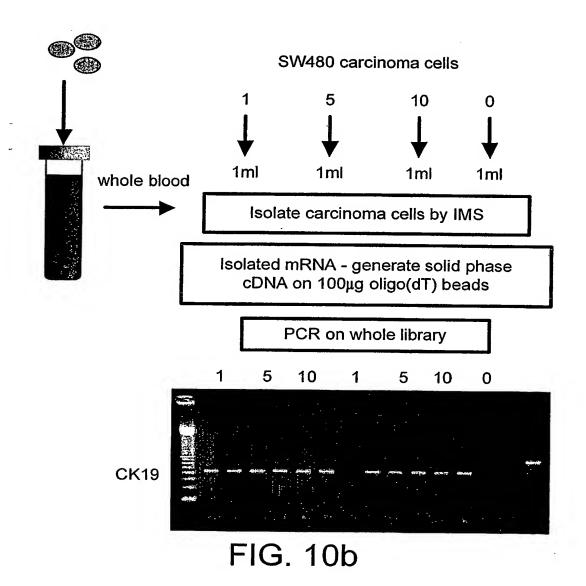


FIG. 9b



**SUBSTITUTE SHEET (RULE 26)** 



**SUBSTITUTE SHEET (RULE 26)** 

0 9 Number of cells S 9 S Re-Use of Solid Phase cDNA mRNA ..... Flexible technology FIG. 11 CK19 **EPCAM** Solid Phase cDNA library

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